



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Andreas Lendlein and Ute Ridder

Serial No.: 10/552,654

Art Unit: Not Yet Assigned

Filed: October 7, 2005

Examiner: Not Yet Assigned

For: *BLENDS WITH SHAPE MEMORY CHARACTERISTICS*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including (3) pages of Form PTO-1449, copies of fifteen (15) documents cited therein, and a copy of the International Search Report mailed July 29, 2004 in PCT/EP2004/003066, which corresponds to the above-identified application.

Pursuant to the waiver in the notice entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003" published on August 5, 2003 in 1273 OG 55, a copy of the cited U.S Patent is not enclosed.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission.

U.S.S.N.: 10/552,654

Filed: October 7, 2005

## INFORMATION DISCLOSURE STATEMENT

However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-3129.

**U.S. Patents**

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
5,446,109	08-29-1995	Matsumura, et al.	525/420
5,506,300	04-09-1996	Ward, et al.	525/88
5,665,831	09-09-1997	Neuenschwander, et al.	525/415
6,388,043	05-14-2002	Langer, et al.	528/80

**Foreign Documents**

<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
0 344 912	12-06-1989	Minnesota Mining and Manufacturing Company	EP
1 000 958	05-17-2000	Takiron Co. Ltd.	EP
63 179 956	07-23-1988	Asahi Chemical Industry	JP
2 123 129	05-10-1990	Toray Industries	JP
2 239 930	09-21-1990	Toray Industries	JP
2 240 135	09-25-1990	Toray Industries	JP
4 185 772	07-02-1992	Toray Industries	JP
4 342 762	11-30-1992	Mitsubishi Heavy Ind, Ltd	JP
11 209 595	08-03-1999	Agency IND Science Techn Nakayama Kazuo	JP
2002 014 054	02-25-2002	Ulsan Industry Education Foundation	KR
WO 99/42147	08-26-1999	Massachusetts Institute Of Technology	PCT
WO 01/07499	02-01-2001	Elastomedic PTY, Limited	PCT

**Publications**

KUSY and WHITLEY, "Thermal characterization of shape memory polymer blends for biomedical implantations", *Thermochimica Acta*, 243(2):253-263 (1994).

NEUENSCHWANDER, et al., "Cell and tissue-compatible implant materials/synthesis", Transactions of the Annual Meeting of the Society for Biomaterials, 2:403, (1996).

OHKI, et al., "Mechanical and shape memory behavior of composites with shape memory polymer", *Composites: Part A*, 35(9):1065-1073 (2004).

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INFORMATION DISCLOSURE STATEMENT

### Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst  
Reg. No. 31,284

Dated: December 5, 2005

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Receipt date: 12/08/2005

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/552,654
Filing Date	October 7, 2005
First Named Inventor	LENDLEIN Andreas
Group Art Unit	
Examiner Name	
Attorney Docket Number	MNE 109

Sheet 1 of 3


**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,506,300		Ward, et al.	04-09-1996	
		5,446,109		Matsumura, et al.	08-29-1995	
		5,665,831		Neuenschwander, et al.	09-09-1997	
		6,388,043		Langer, et al.	05-14-2002	

**FOREIGN PATENT DOCUMENTS**

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		EP	0 344 912		Minnesota Mining and Manufacturing Company	12-06-1989		
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		JP	11 209 595		Agency IND Science Techn and Nakayama Kazuo	08-03-1999		

Examiner's Signature	/Michael Dollinger/	Date Considered	01/07/2009
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

<sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant to place a check mark here if English language Translation is attached.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Substitute for form 1449A/PTO  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p> </div> <div style="border: 1px solid black; padding: 5px; width: 60%;"> <p style="text-align: center; margin: 0;"><b>Complete if Known</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Application Number</td> <td>10/552,654</td> </tr> <tr> <td>Filing Date</td> <td>October 7, 2005</td> </tr> <tr> <td>First Named Inventor</td> <td>LENDLEIN Andreas</td> </tr> <tr> <td>Group Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>MNE 109</td> </tr> </table> </div> </div>				Application Number	10/552,654	Filing Date	October 7, 2005	First Named Inventor	LENDLEIN Andreas	Group Art Unit		Examiner Name		Attorney Docket Number	MNE 109
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Application Number

**10/552,654**

Filing Date

**October 7, 2005**

**First Named Inventor**

**LENDLEIN Andreas**

### Group Art Unit

**Examiner Name**

Attorney Docket Number

MNE 109

Sheet	3	of	3
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## OTHER ART -- NON PATENT LITERATURE DOCUMENTS

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Examiner's Signature	/Michael Dollinger/	Date Considered	01/07/2009
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